

ABSTRACT OF THE DISCLOSURE

A method of resisting corrosion of metal elements in concrete is provided. It includes introducing into concrete containing metal elements, at least one combination compound capable of sequestering chloride ions having the formula

5 $3\text{Me(II)}\text{O}\cdot(\text{R}, \text{R}')_2\text{O}_3\cdot\text{Me(II)}(\text{anion})_2\cdot n\text{H}_2\text{O}$, where R and R' are different and are independently selected from the group consisting of Al, Fe and Cr; anion is selected from the group consisting of NO_2 , NO_3 and OH, n is 0 to 24, and Me(II) is a cation and is selected from the group consisting of Ca, Ba, Sr, Mn, Zn and combinations thereof. In one embodiment of the invention, concrete structures may be rehabilitated

10 by providing an overlay containing the combination compound, with the overlay being provided in situ or as a preformed member and with possible use of a slurry in combination with an overlay segment.